

SEQUENCE LISTING

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Zhang, Huanmin

<120> FERTILITY PREDICTION OF MAMMALIAN MALES AND POLYCLONAL ANTIBODIES FOR THE PREDICTION THEREOF

<130> 240523US20

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<170> PatentIn version 3.1

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<213> Bos taurus

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Met Pro Leu Pro Leu Ala Cys  
1 5  
  
ctg ctg ctt ctc ctc tcc acc cac agt gcc ctg gcc ctc aag atc 161  
Leu Leu Leu Leu Leu Ser Thr His Ser Ala Leu Ala Leu Lys Ile  
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tgc tcc ttc aat gtg agg tcc ttt ggg gaa tcc aag aag gca aac tgt 209  
Cys Ser Phe Asn Val Arg Ser Phe Gly Glu Ser Lys Lys Ala Asn Cys  
25 30 35  
  
aat gcc atg gat gtc att gtg aag gtc atc aaa cgc tgt gat atc ata 257  
Asn Ala Met Asp Val Ile Val Lys Val Ile Lys Arg Cys Asp Ile Ile  
40 45 50 55  
  
ctc ctg atg gaa atc aag gac agc aac agg atc tgc ccc aca ctg 305  
Leu Leu Met Glu Ile Lys Asp Ser Ser Asn Arg Ile Cys Pro Thr Leu  
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Phe	Leu	Tyr	Lys	Glu	Lys	Leu	Val	Ser	Val	Lys	Gln	Ser	Tyr	Leu	Tyr	
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cac	gac	tat	cag	gct	gga	gac	gca	gat	gtg	ttt	tcc	agg	gaa	ccc	ttt	497
His	Asp	Tyr	Gln	Ala	Gly	Asp	Ala	Asp	Val	Phe	Ser	Arg	Glu	Pro	Phe	
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gtg	gtc	tgg	ttc	cag	tca	ccc	tac	acc	gct	gtc	aag	gac	ttc	gtg	att	545
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Val	Pro	Leu	His	Thr	Thr	Pro	Glu	Thr	Ser	Val	Arg	Glu	Ile	Asp	Glu	
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Leu	Ala	Asp	Val	Tyr	Thr	Asp	Val	Lys	Arg	Arg	Trp	Asn	Ala	Glu	Asn	
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ttc	att	ttc	atg	ggt	gac	ttc	aat	gct	ggc	tgc	agc	tac	gtc	ccc	aag	689
Phe	Ile	Phe	Met	Gly	Asp	Phe	Asn	Ala	Gly	Cys	Ser	Tyr	Val	Pro	Lys	
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Lys	Ala	Trp	Lys	Asp	Ile	Arg	Leu	Arg	Thr	Asp	Pro	Lys	Phe	Val	Trp	
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Ala	Tyr	Asp	Arg	Ile	Val	Leu	Arg	Gly	Gln	Asn	Ile	Val	Asn	Ser	Gly	
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<213> Bos taurus

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Lys	Gly	Ile	Thr	Tyr	Asn	Tyr	Val	Ile	Ser	Ser	Arg	Leu	Gly	Arg	Asn
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Thr	Tyr	Lys	Glu	Gln	Tyr	Ala	Phe	Leu	Tyr	Lys	Glu	Lys	Leu	Val	Ser
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Val	Phe	Ser	Arg	Glu	Pro	Phe	Val	Val	Trp	Phe	Gln	Ser	Pro	Tyr	Thr
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Ala	Val	Lys	Asp	Phe	Val	Ile	Val	Pro	Leu	His	Thr	Thr	Pro	Glu	Thr
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Ser	Val	Arg	Glu	Ile	Asp	Glu	Leu	Ala	Asp	Val	Tyr	Thr	Asp	Val	Lys
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Arg	Arg	Trp	Asn	Ala	Glu	Asn	Phe	Ile	Phe	Met	Gly	Asp	Phe	Asn	Ala
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Thr Asp Pro Lys Phe Val Trp Leu Ile Gly Asp Gln Glu Asp Thr Thr  
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Val Lys Lys Ser Thr Asn Cys Ala Tyr Asp Arg Ile Val Leu Arg Gly  
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tcttgaagcc agagcagcac cagg atg tca cgg gag ctg gcc cca ctg ctg 171  
Met Ser Arg Glu Leu Ala Pro Leu Leu  
1 5  
  
ctt ctc ctc ctc tcc atc cac agc gcc ctg gcc atg agg atc tgc tcc 219  
Leu Leu Leu Leu Ser Ile His Ser Ala Leu Ala Met Arg Ile Cys Ser  
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ttc aac gtc agg tcc ttt ggg gaa agc aag cag gaa gac aag aat gcc 267  
Phe Asn Val Arg Ser Phe Gly Glu Ser Lys Gln Glu Asp Lys Asn Ala  
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atg gat gtc att gtg aag gtc atc aaa cgc tgt gac atc ata ctc gtg 315  
Met Asp Val Ile Val Lys Val Ile Lys Arg Cys Asp Ile Ile Leu Val  
45 50 55  
  
atg gaa atc aag gac agc aac aac agg atc tgc ccc ata ctg atg gag 363  
Met Glu Ile Lys Asp Ser Asn Asn Arg Ile Cys Pro Ile Leu Met Glu  
60 65 70

aag ctg aac aga aat tca agg aga ggc ata acg tac aac tat gtg att			411
Lys Leu Asn Arg Asn Ser Arg Arg Gly Ile Thr Tyr Asn Tyr Val Ile			
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agc tct cgg ctt gga aga aac aca tat aaa gaa caa tat gcc ttt ctc			459
Ser Ser Arg Leu Gly Arg Asn Thr Tyr Lys Glu Gln Tyr Ala Phe Leu			
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Tyr Lys Glu Lys Leu Val Ser Val Lys Arg Ser Tyr His Tyr His Asp			
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Tyr Gln Asp Gly Asp Ala Asp Val Phe Ser Arg Glu Pro Phe Val Val			
125	130	135	
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Trp Phe Gln Ser Pro His Thr Ala Val Lys Asp Phe Val Ile Ile Pro			
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ctg cac acc acc cca gag aca tcc gtt aag gag atc gat gag ttg gtt			651
Leu His Thr Thr Pro Glu Thr Ser Val Lys Glu Ile Asp Glu Leu Val			
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Glu Val Tyr Thr Asp Val Lys His Arg Trp Lys Ala Glu Asn Phe Ile			
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Phe Met Gly Asp Phe Asn Ala Gly Cys Ser Tyr Val Pro Lys Lys Ala			
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Trp Lys Asn Ile Arg Leu Arg Thr Asp Pro Arg Phe Val Trp Leu Ile			
205	210	215	
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Gly Asp Gln Glu Asp Thr Thr Val Lys Lys Ser Thr Asn Cys Ala Tyr			
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Asp Arg Ile Val Leu Arg Gly Gln Asn Ile Val Asn Ser Val Val Pro			
235	240	245	
aag tca aac agt gtt ttt gac ttc cag aaa gct tac aag ctg act gaa			939
Lys Ser Asn Ser Val Phe Asp Phe Gln Lys Ala Tyr Lys Leu Thr Glu			
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gag gag gta agg ttg cca tct tgt ctt tct atg cca ttg tcc tgg aaa			987
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285

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Glu Ser Lys Gln Glu Asp Lys Asn Ala Met Asp Val Ile Val Lys Val  
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Ile Lys Arg Cys Asp Ile Ile Leu Val Met Glu Ile Lys Asp Ser Asn  
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Asn Arg Ile Cys Pro Ile Leu Met Glu Lys Leu Asn Arg Asn Ser Arg  
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Arg Gly Ile Thr Tyr Asn Tyr Val Ile Ser Ser Arg Leu Gly Arg Asn  
85 90 95

Thr Tyr Lys Glu Gln Tyr Ala Phe Leu Tyr Lys Glu Lys Leu Val Ser  
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Val Lys Arg Ser Tyr His Tyr His Asp Tyr Gln Asp Gly Asp Ala Asp  
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Val Phe Ser Arg Glu Pro Phe Val Val Trp Phe Gln Ser Pro His Thr  
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Ala Val Lys Asp Phe Val Ile Ile Pro Leu His Thr Thr Pro Glu Thr  
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Ser Val Lys Glu Ile Asp Glu Leu Val Glu Val Tyr Thr Asp Val Lys  
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His Arg Trp Lys Ala Glu Asn Phe Ile Phe Met Gly Asp Phe Asn Ala  
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Gly Cys Ser Tyr Val Pro Lys Lys Ala Trp Lys Asn Ile Arg Leu Arg  
195 200 205

Thr Asp Pro Arg Phe Val Trp Leu Ile Gly Asp Gln Glu Asp Thr Thr  
210 215 220

Val Lys Lys Ser Thr Asn Cys Ala Tyr Asp Arg Ile Val Leu Arg Gly  
225 230 235 240

Gln Asn Ile Val Asn Ser Val Val Pro Lys Ser Asn Ser Val Phe Asp  
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